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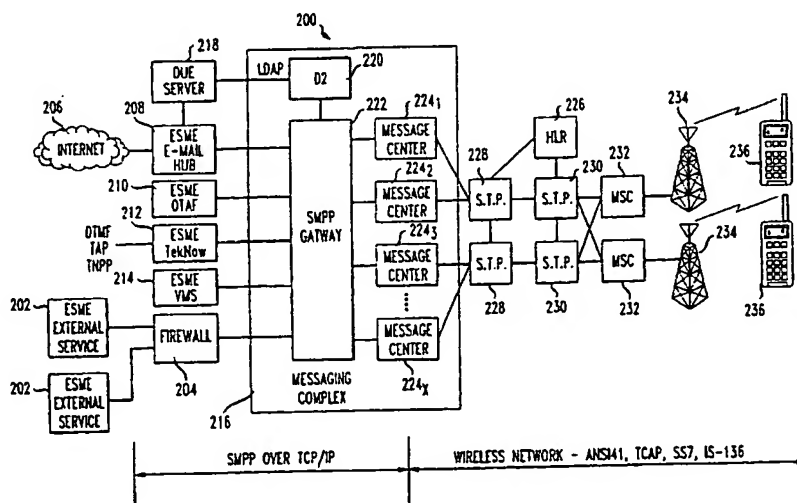
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— with international search report
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17 April 2003
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(54) Title: A SHORT MESSAGE POINT-TO-POINT PROTOCOL GATEWAY HAVING A STANDARD INTERFACE



(57) Abstract: The present invention comprises a system (200) for allowing an external short message entity (202) to submit messages to be delivered to a wireless device (236). The system (200) involves implementing an external interface to the messaging complex (216) of a wireless system. The interface enables all ESMs (202) to communicate with the messaging complex (216) using a consistent standard interface. The system comprises a short messaging point-to-point router (222), a message complex (216), a home location register (226) and a mobile switching center (232). The external short message entity (202) connects to the short messaging point-to-point router (222) and requests delivery of a message to a wireless device (236), and the short message point-to-point router (222) the request to an appropriate messaging center (224).

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/43671

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :H04Q 7/20

US CL :455/466

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 455/466, 410, 453

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,E ----- Y,E	US 6,405,033 B1 (KENNEDY, III et al) 11 JUNE 2002, col. 3, line 54-col. 16, line 50; col. 3, line 54-col. 16, line 50	1-3, 7, 20-24, 37-40, 44, 45 ----- 4-6
Y ----- A	US 5,966,663 A (GLEASON) 12 OCTOBER 1999, col. 14, line 50-col. 15, line 67, col. 28, line 5-col. 30, line 35; col. 14, line 50-col. 15, line 67, col. 28, line 5-col. 30, line 35	4-6 ----- 50-62
A,P	US 6,263,212 B1 (ROSS et al) 17 JULY 2001, ENTIRE DOCUMENT	1-68

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Further documents are listed in the continuation of Box C.

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See patent family annex.

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"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the international search

23 AUGUST 2002

Date of mailing of the international search report

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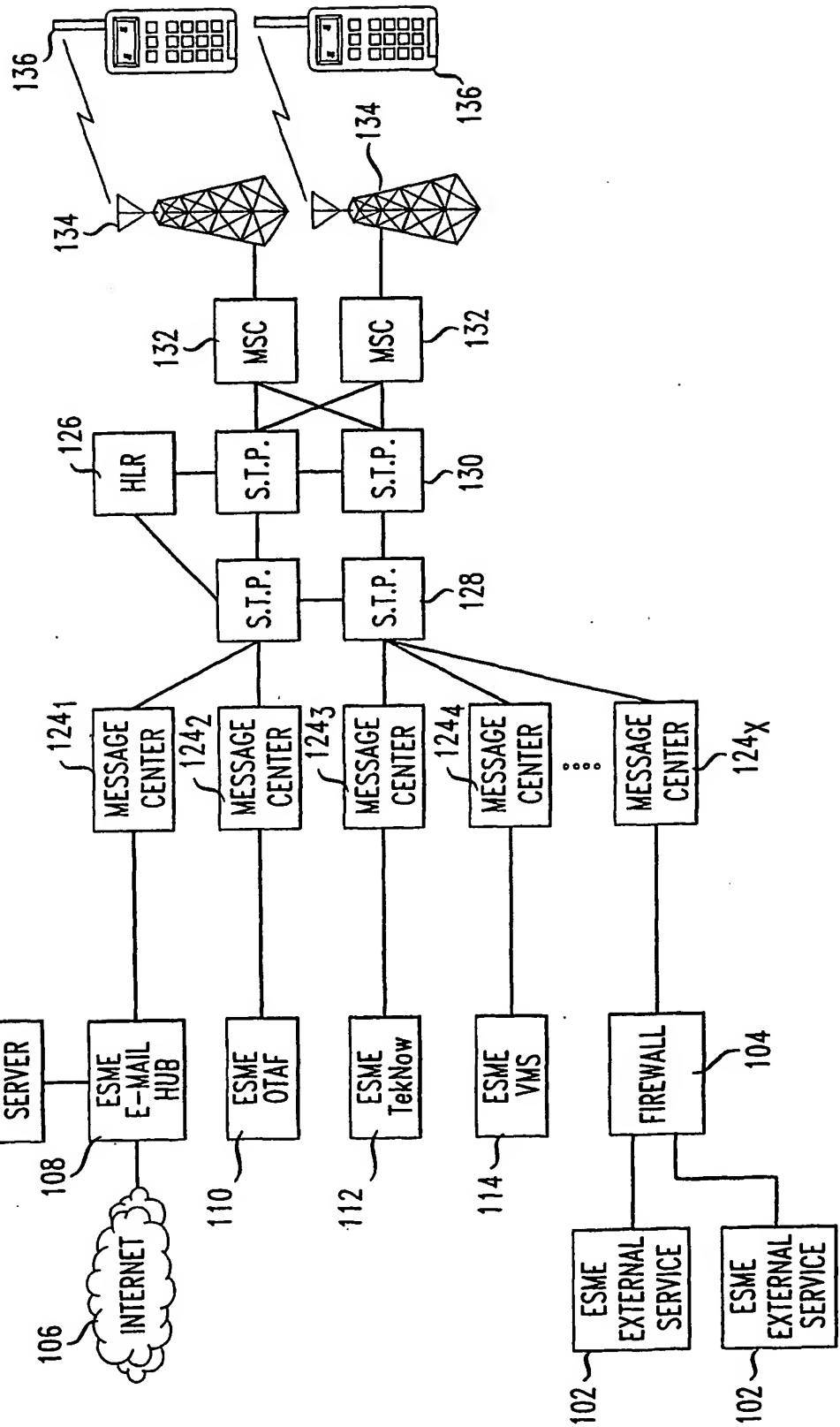
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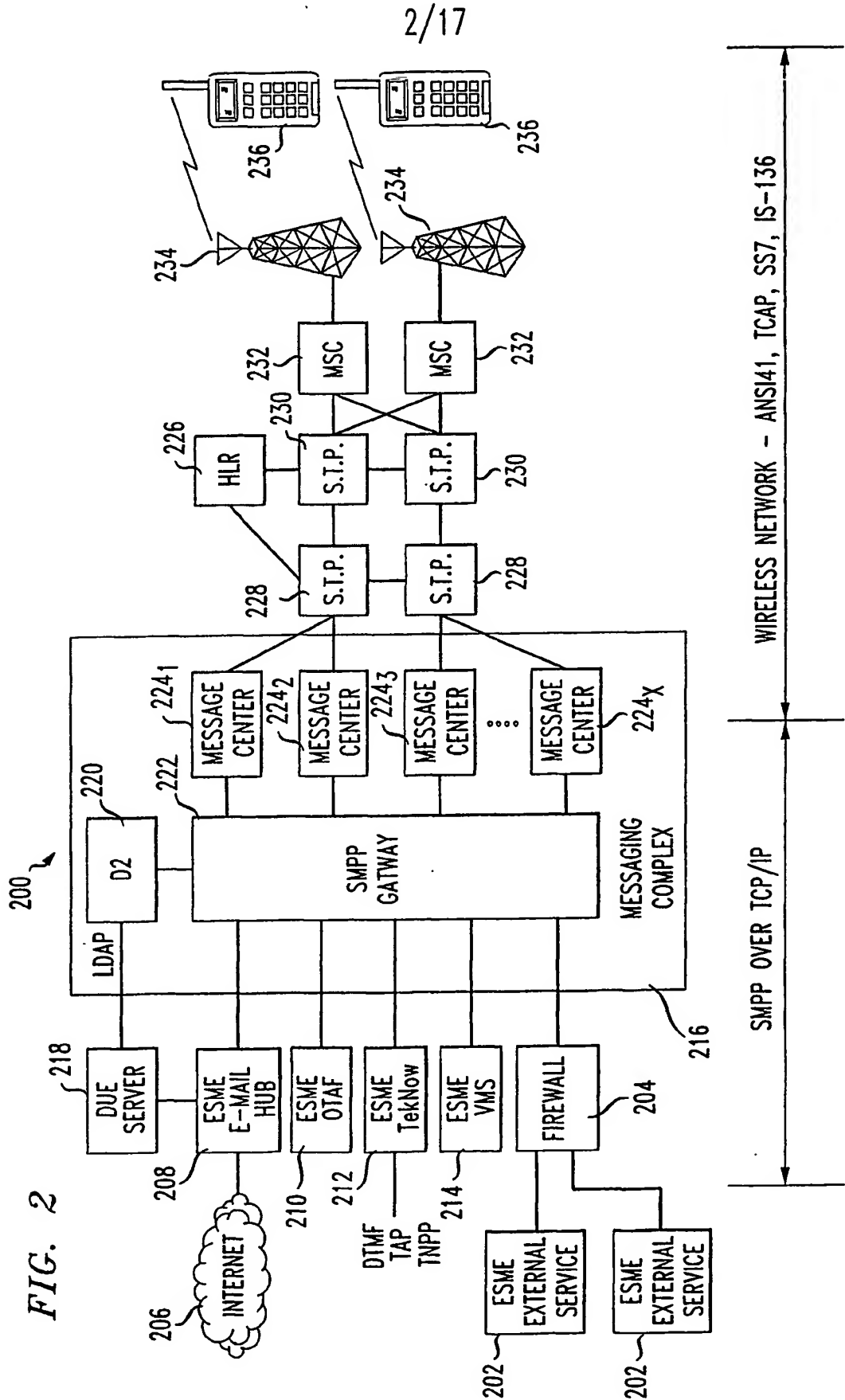
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FIG. 1

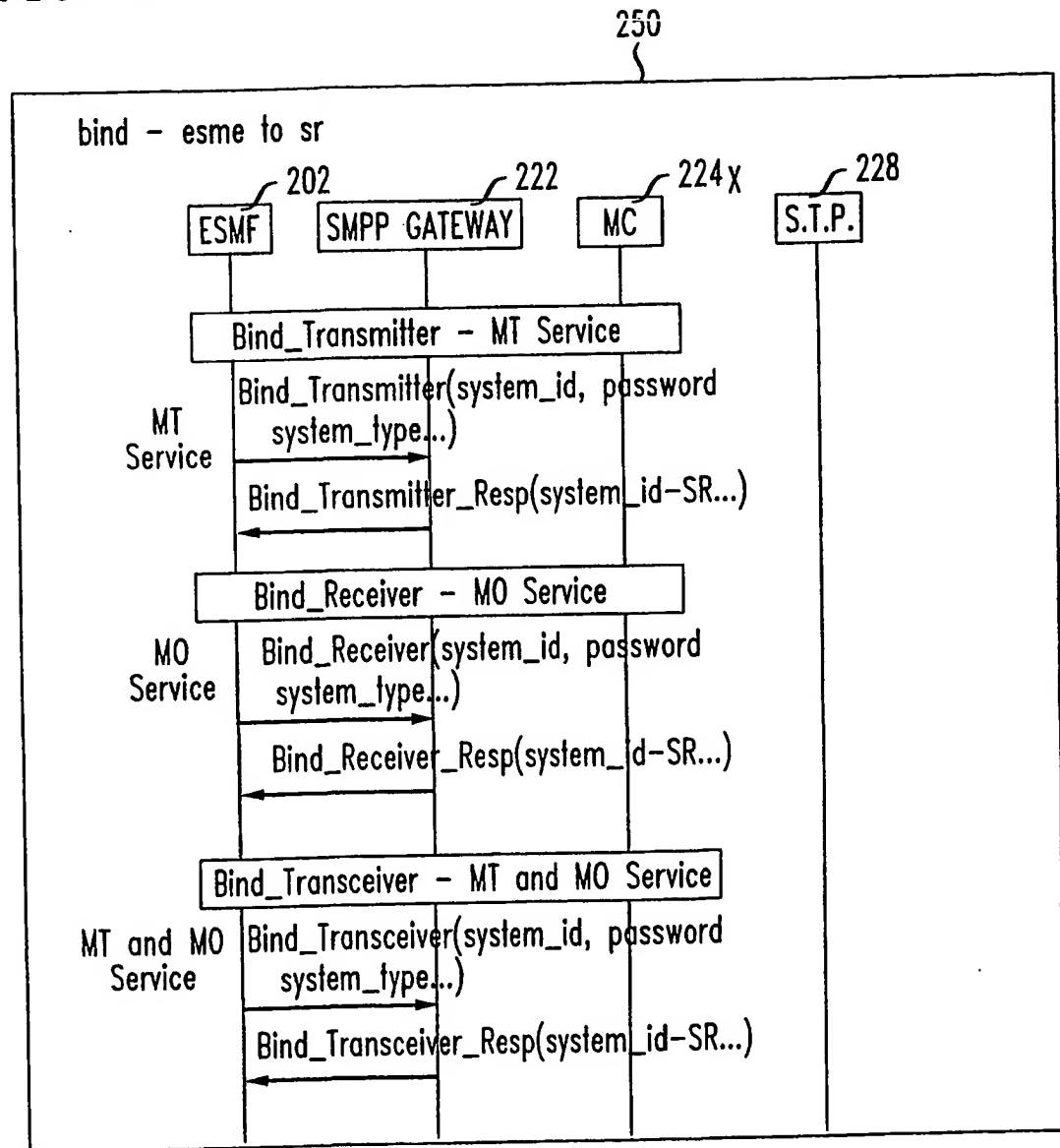
PRIOR ART





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FIG. 3



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FIG. 4

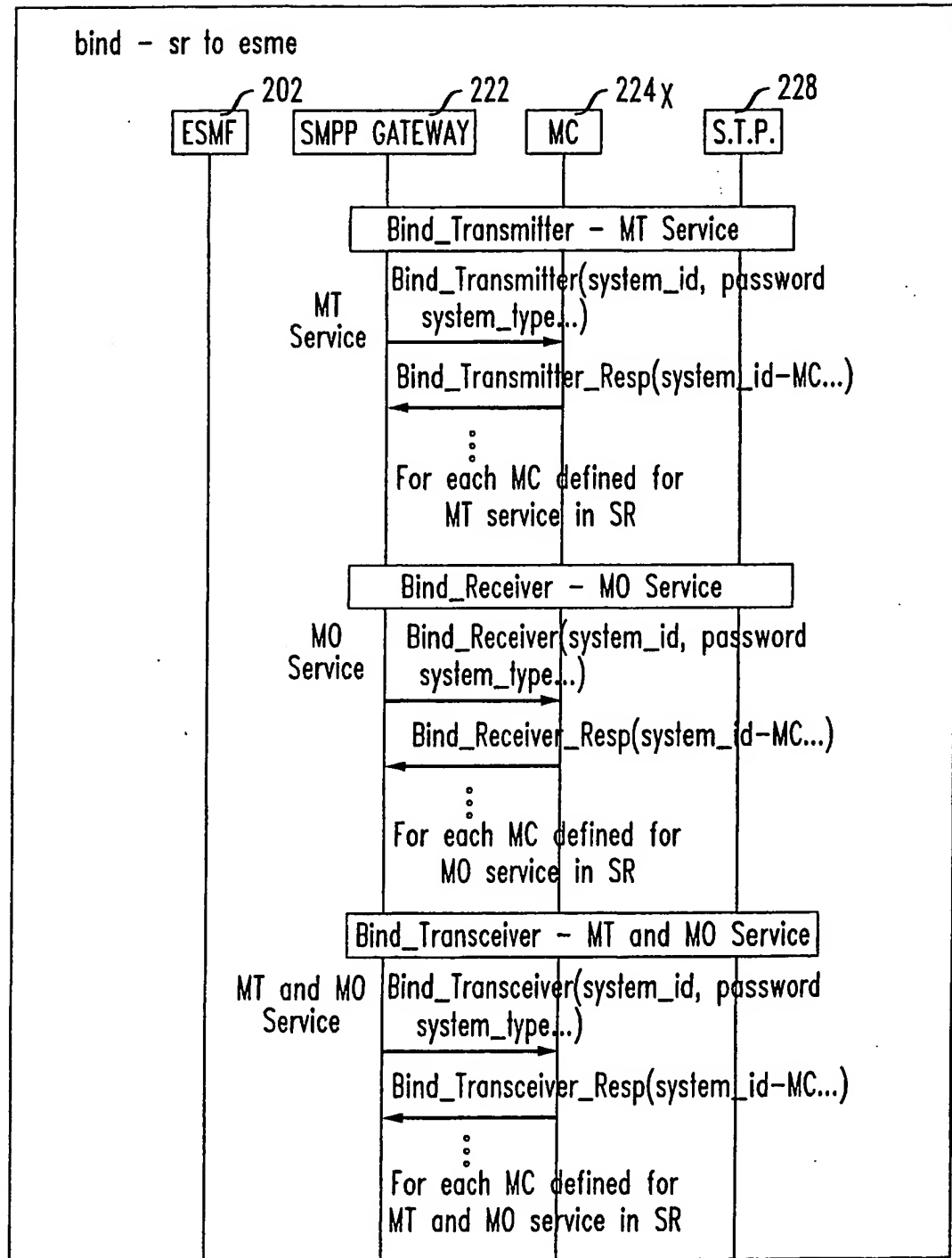
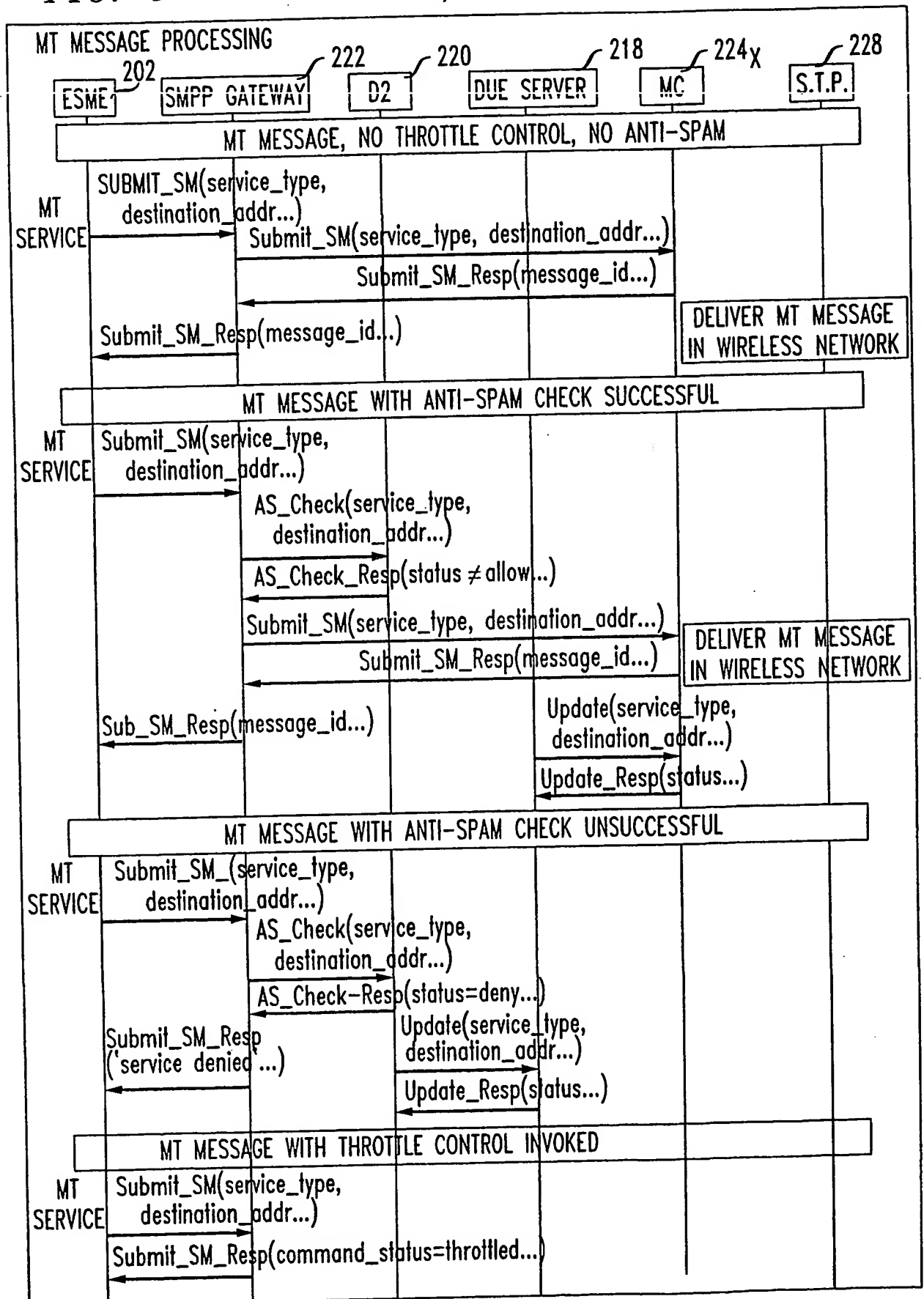


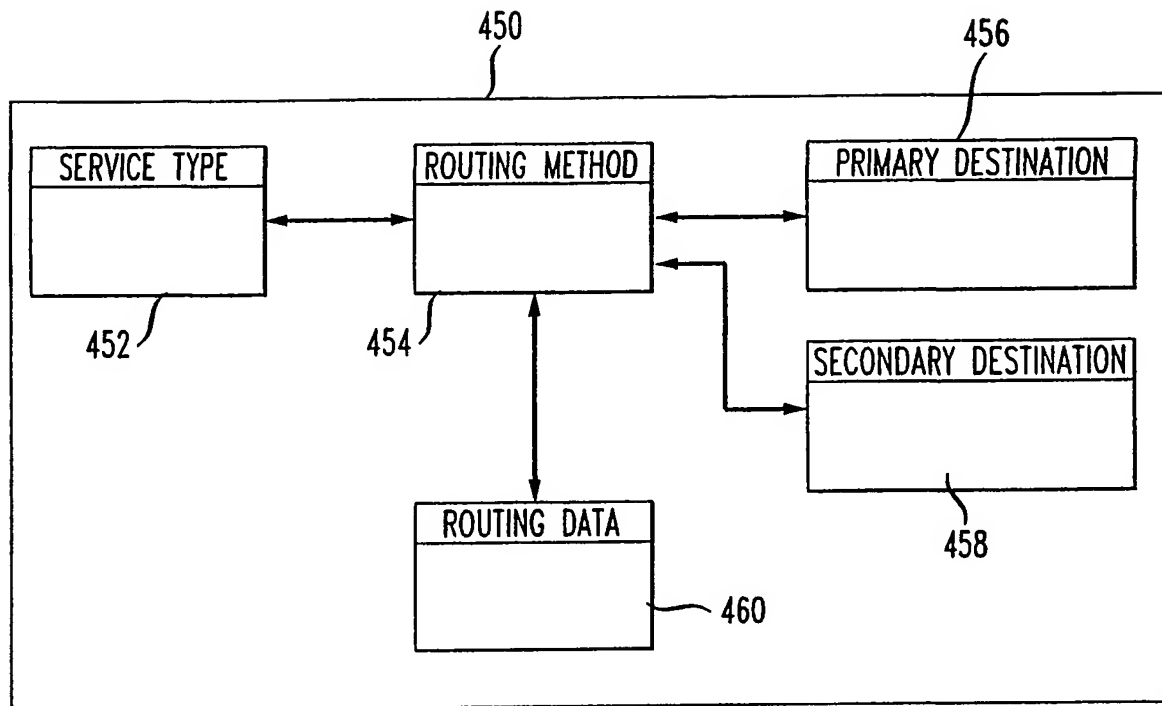
FIG. 5

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FIG. 6





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FIG. 7

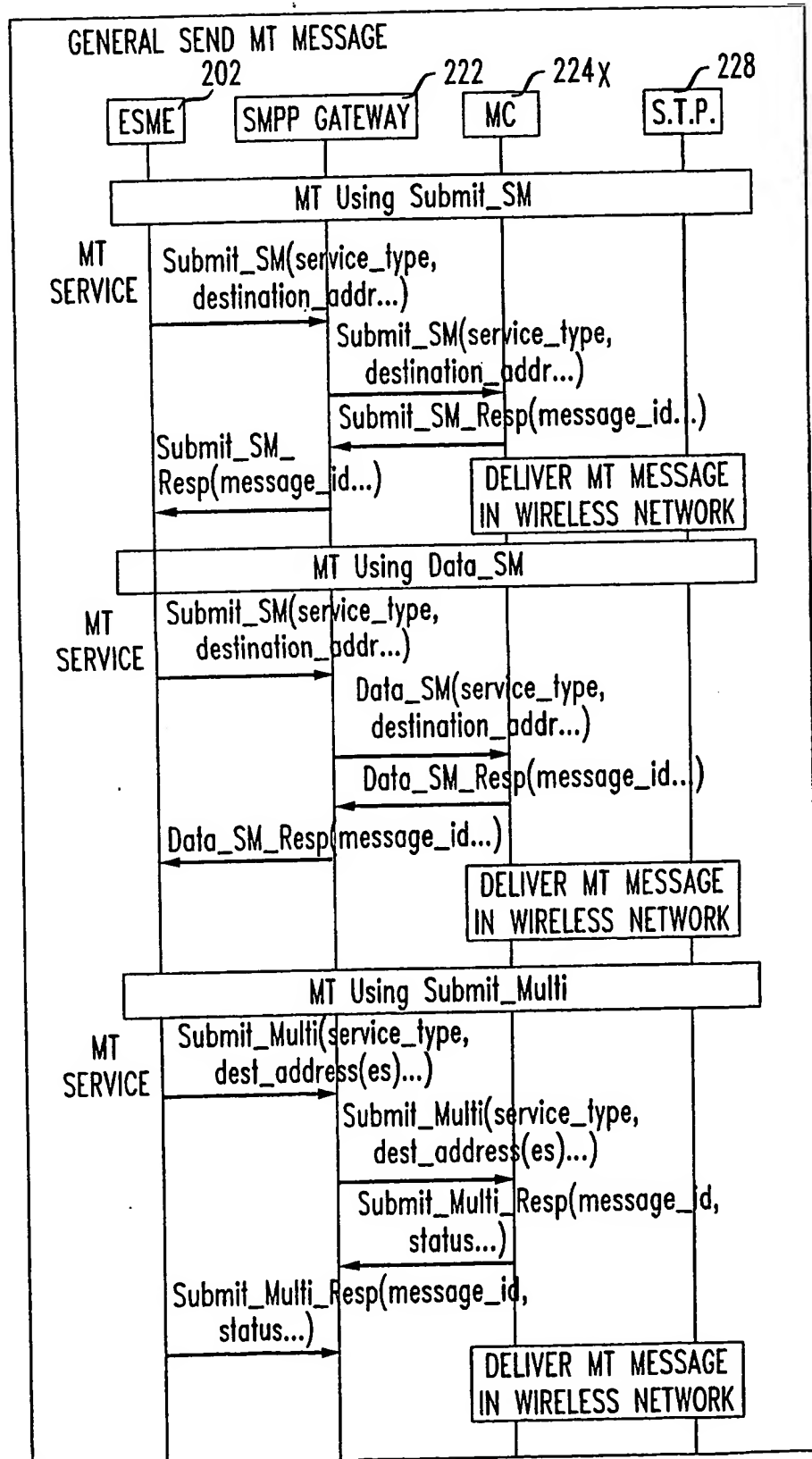


FIG. 8

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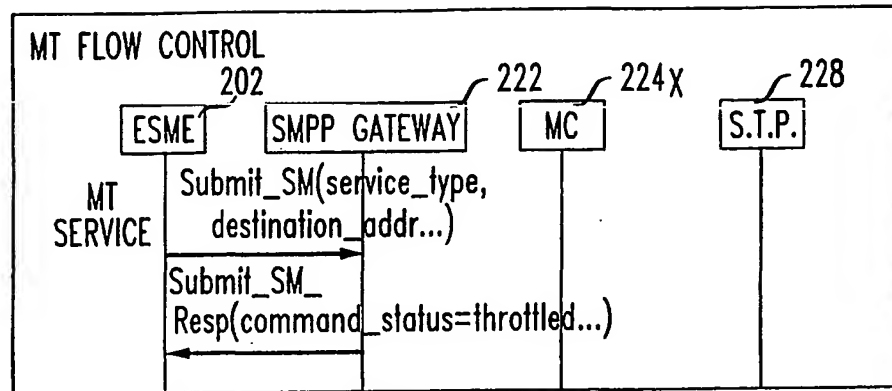
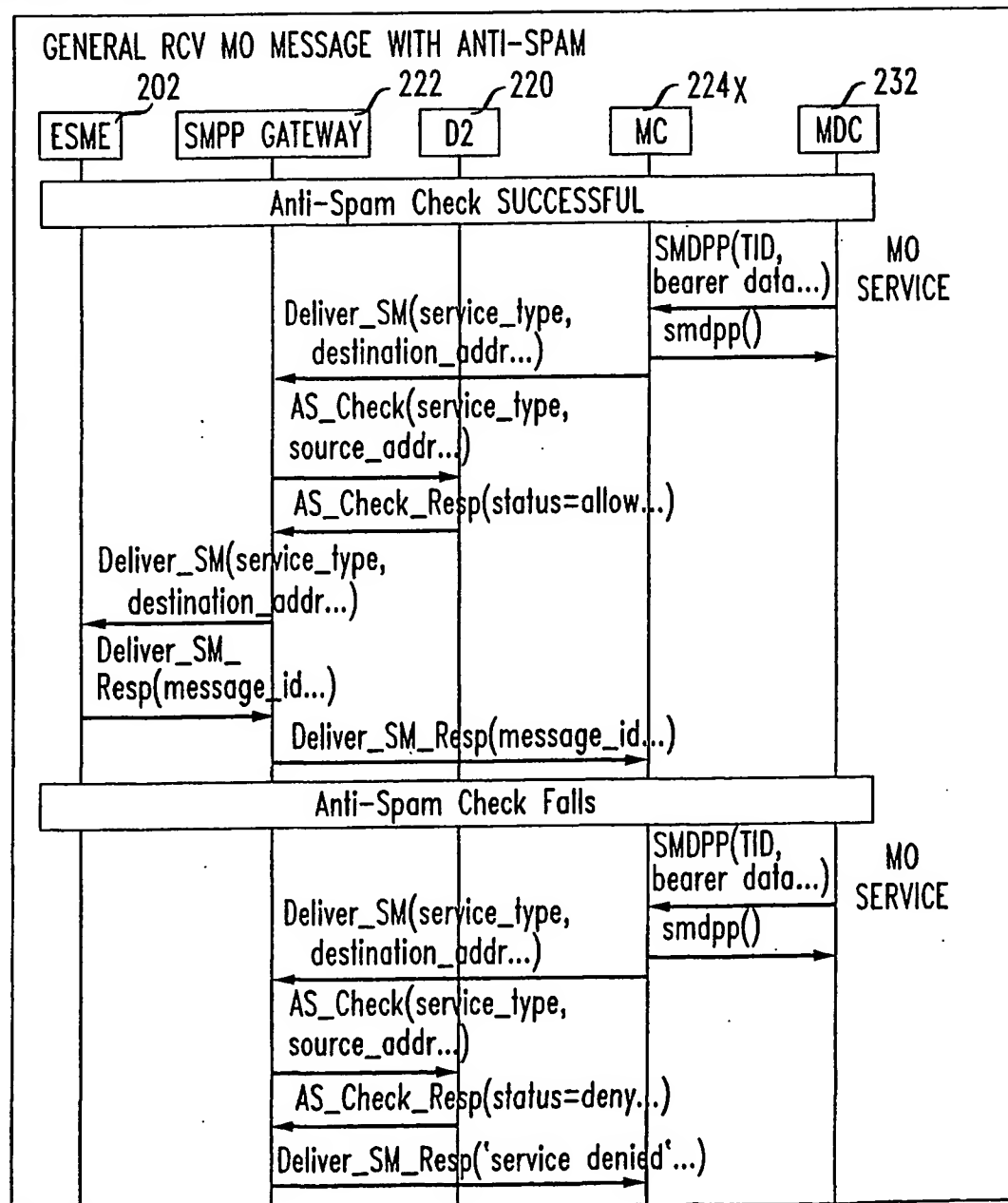


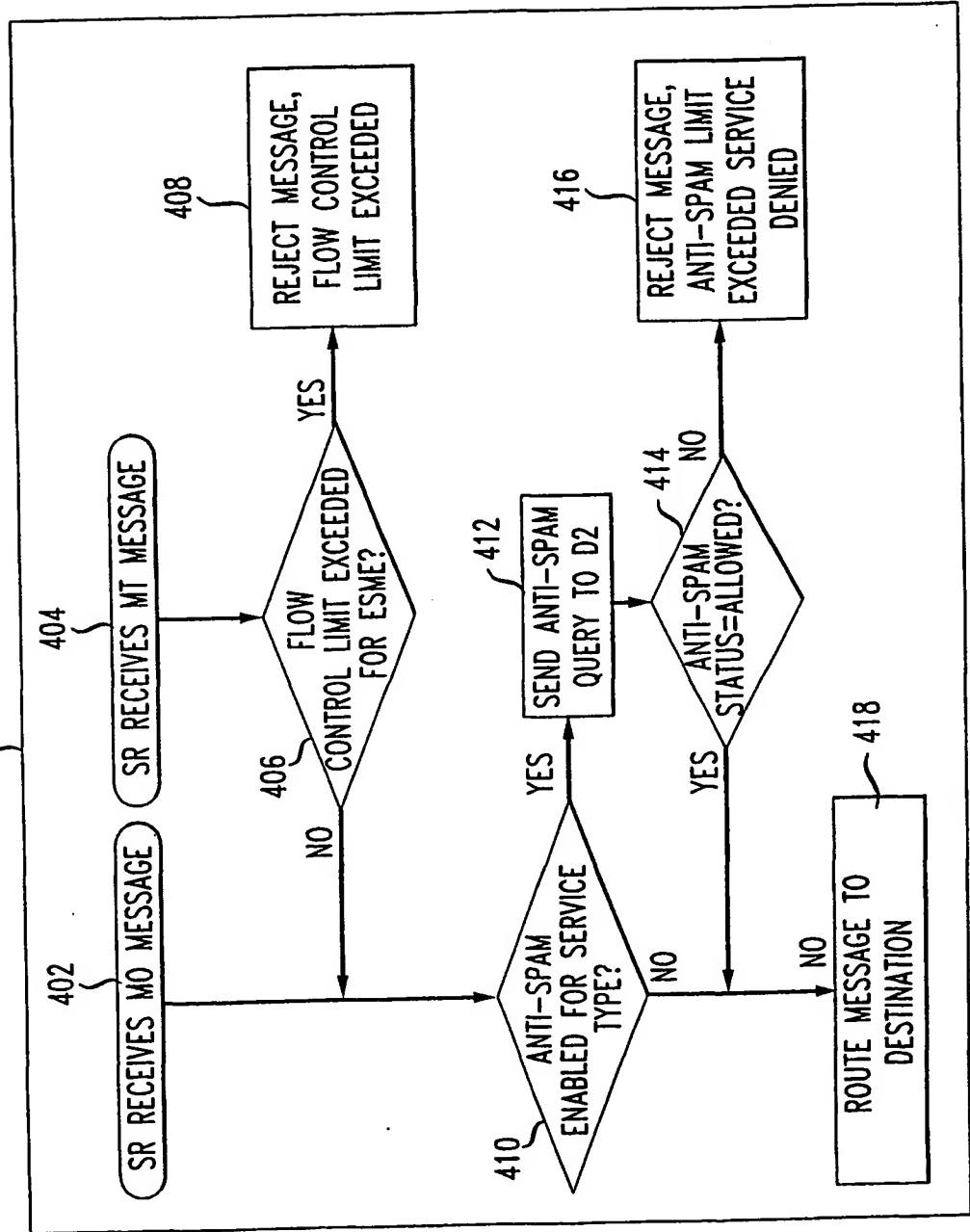
FIG. 9



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FIG. 10

400



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300 FIG. 11

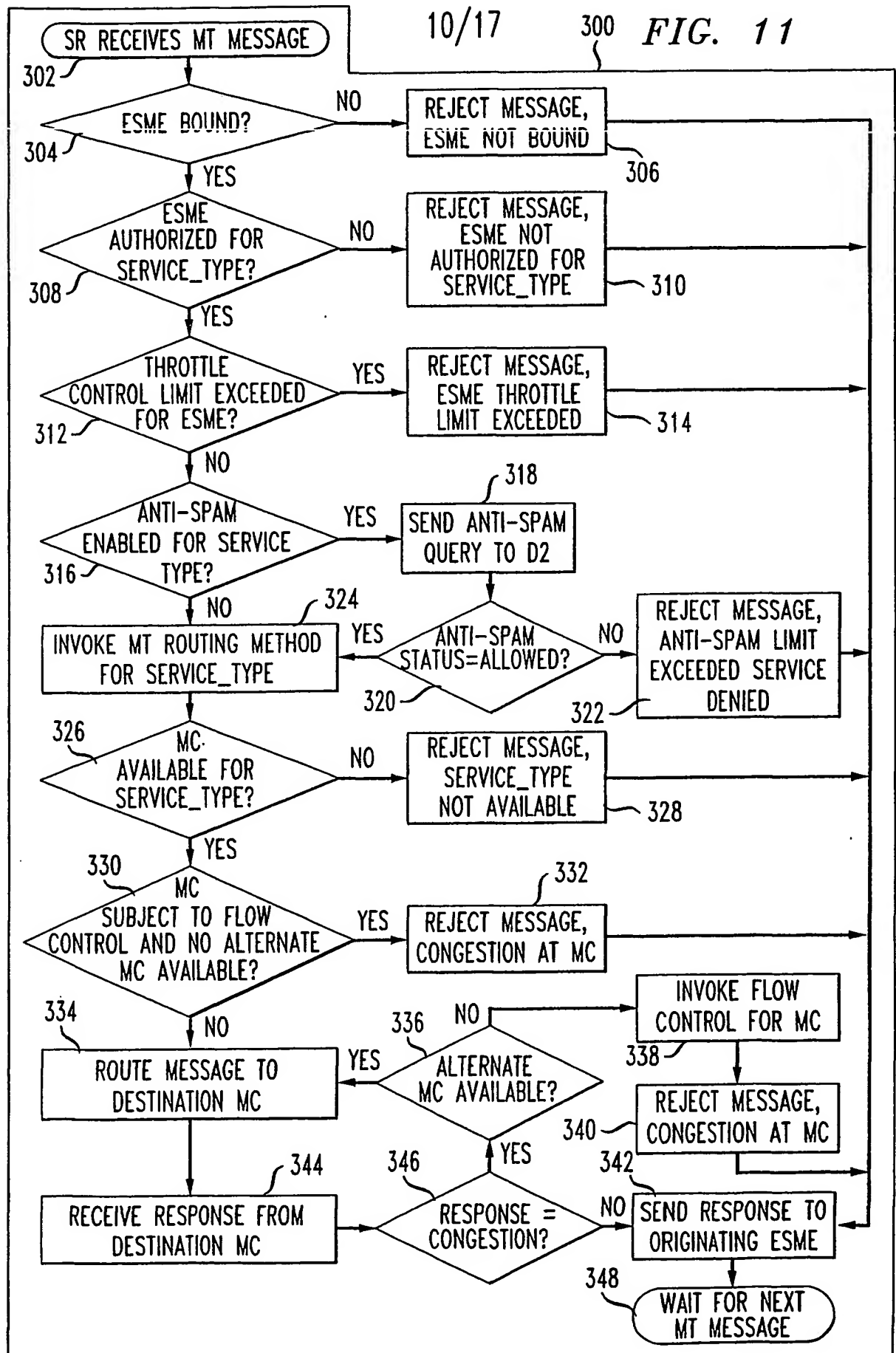


FIG. 12

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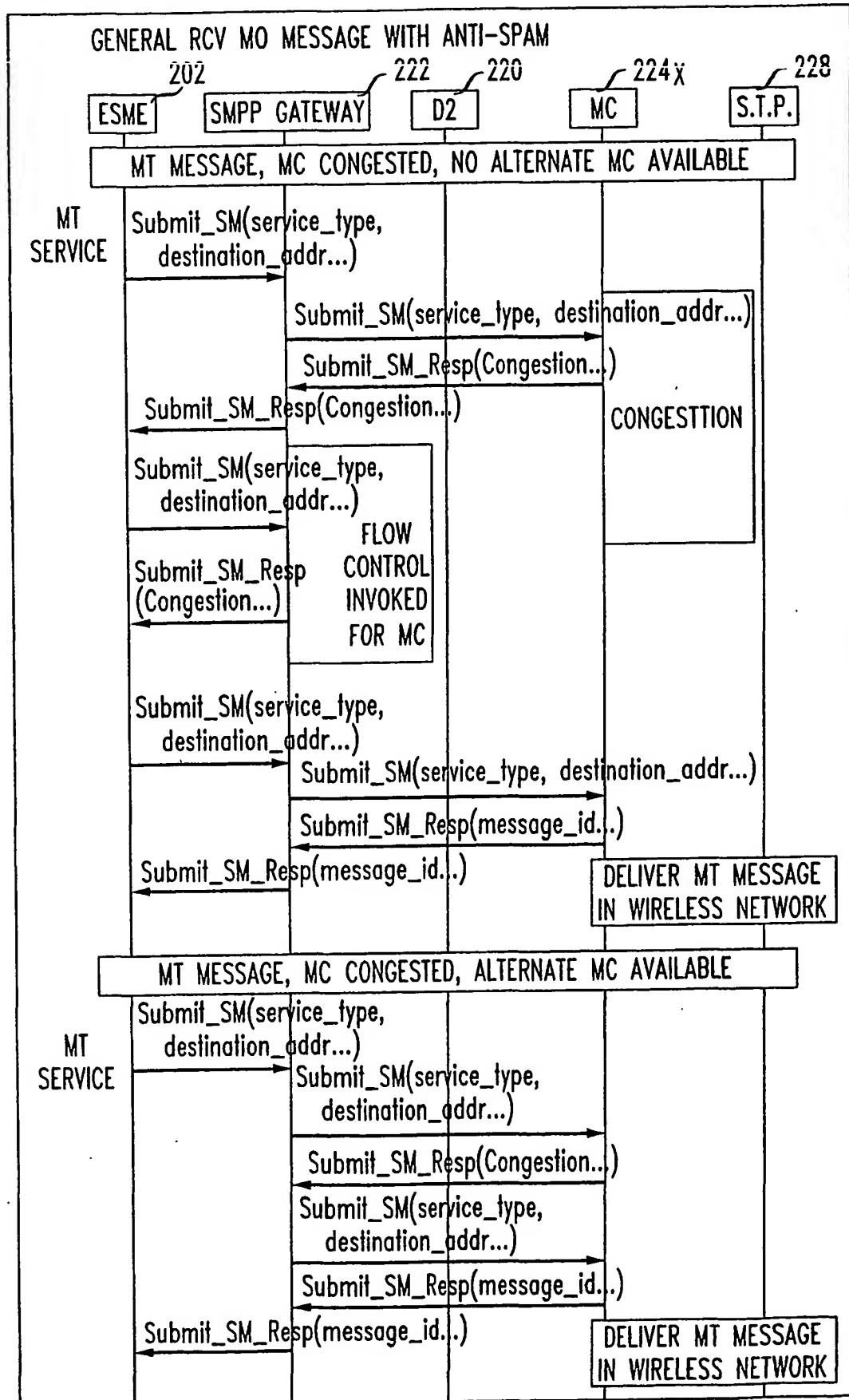
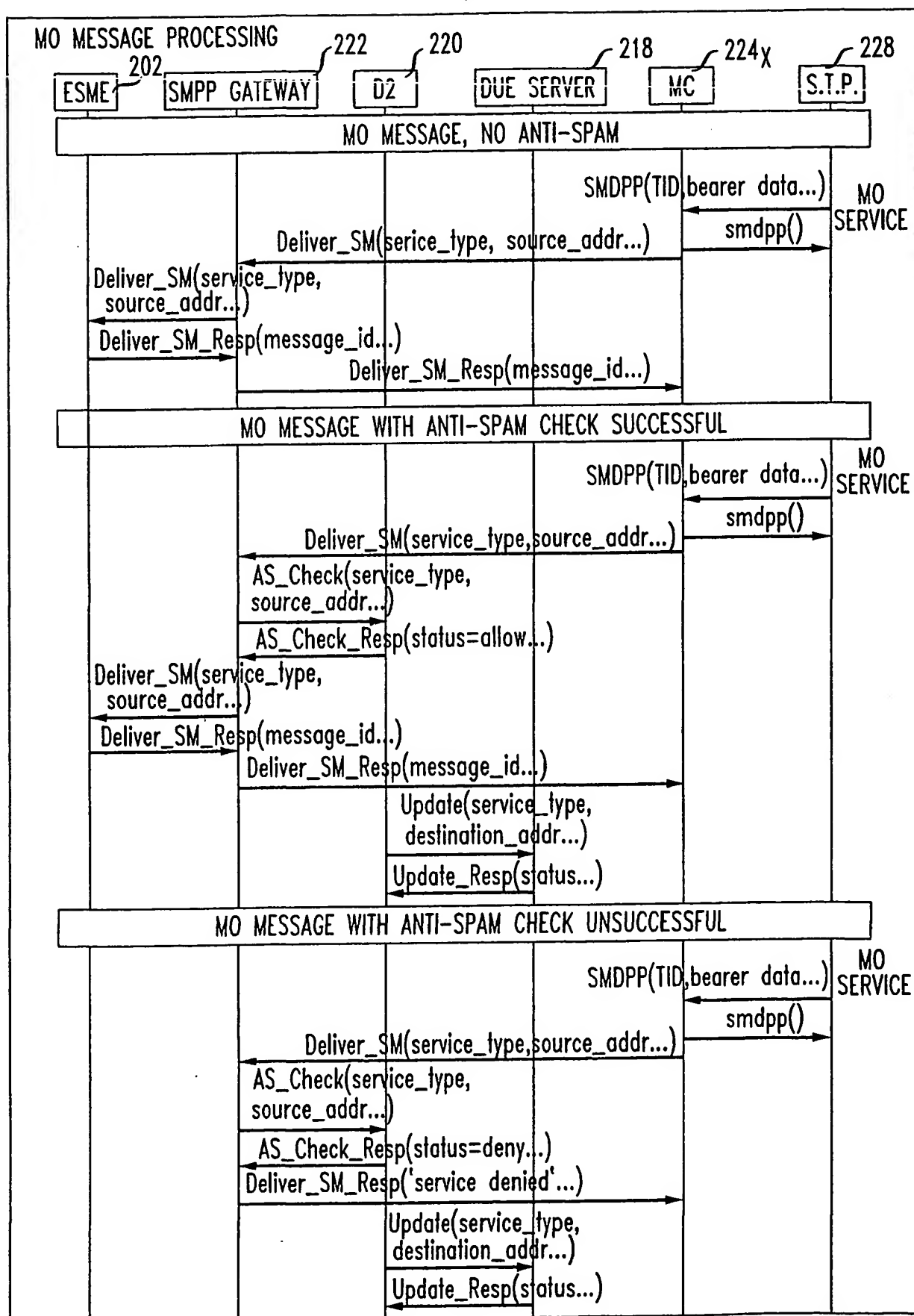


FIG. 13

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FIG. 14

500

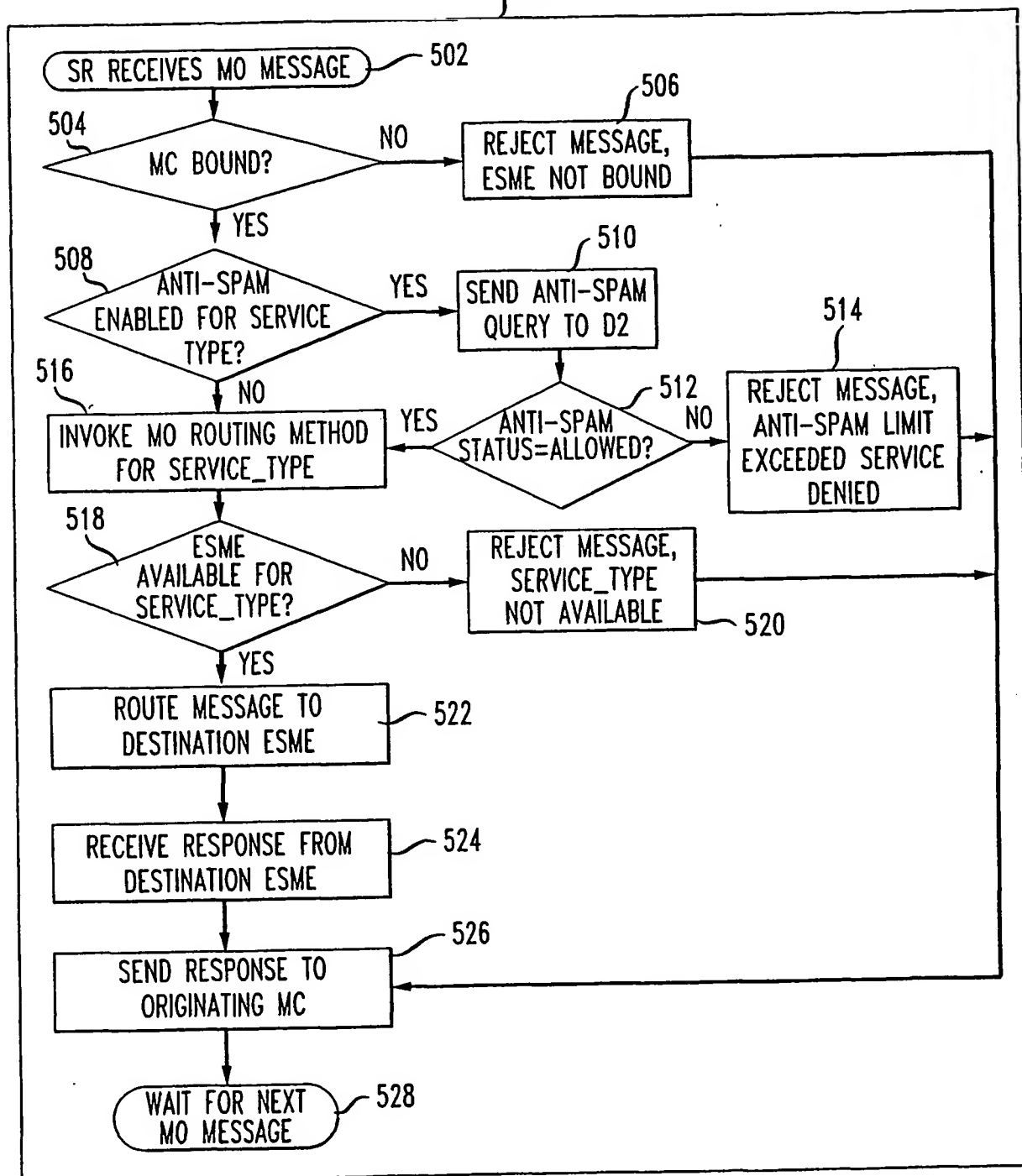


FIG. 15

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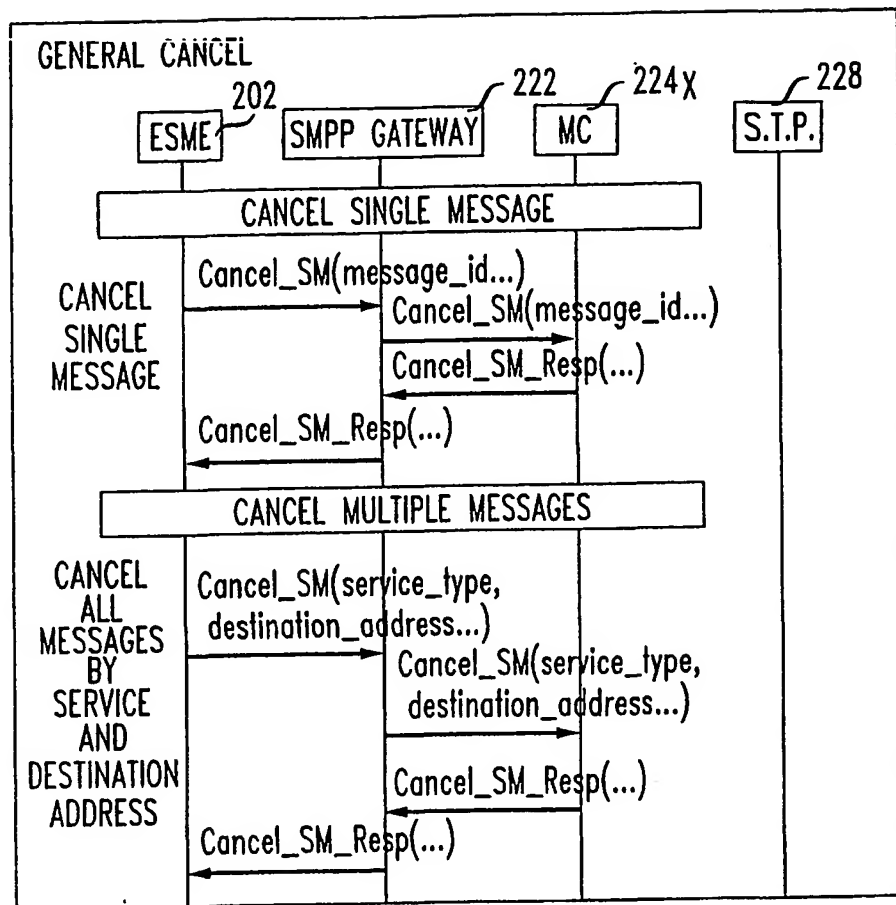
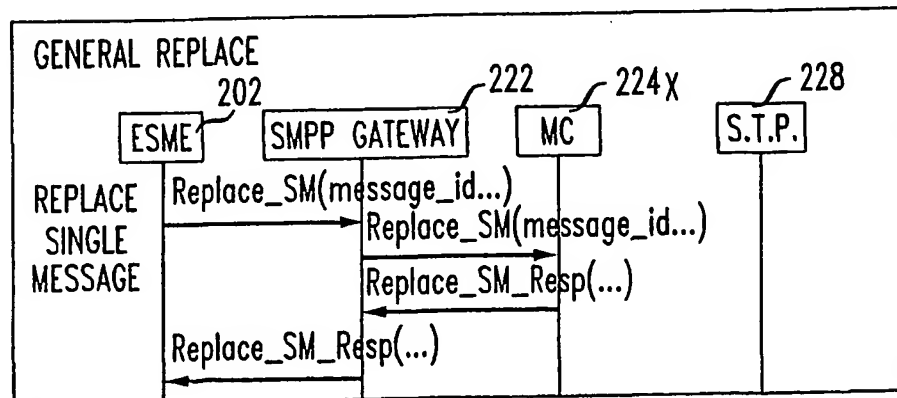


FIG. 16





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FIG. 17

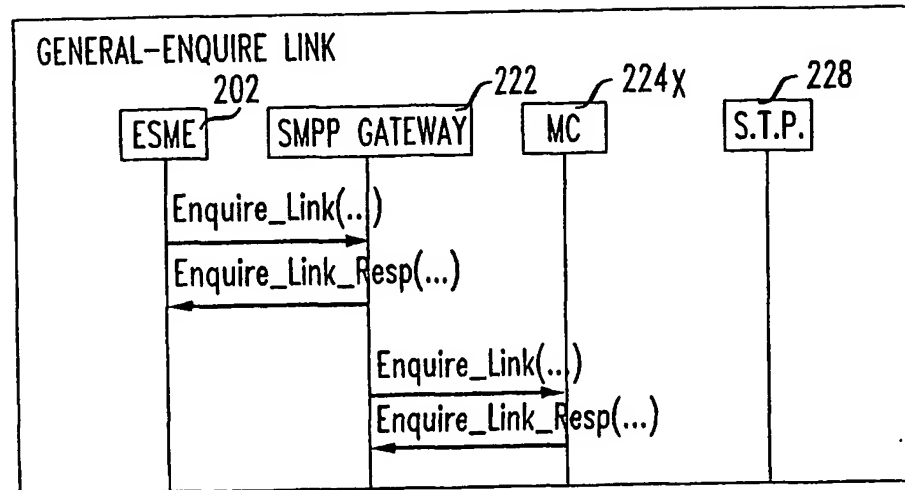


FIG. 18

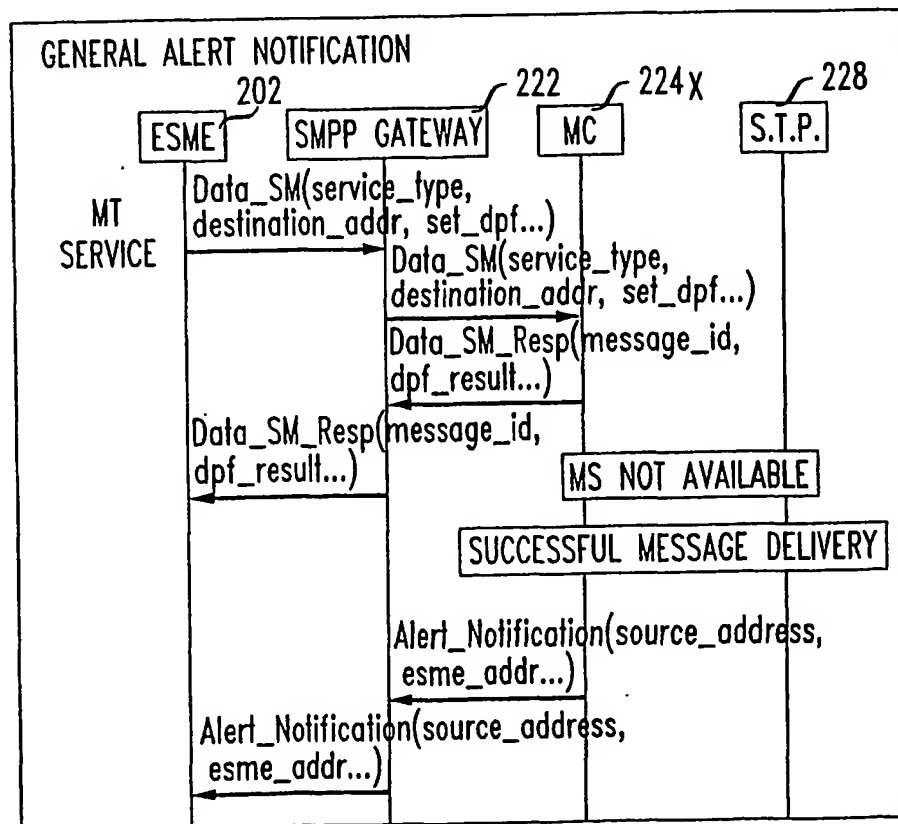
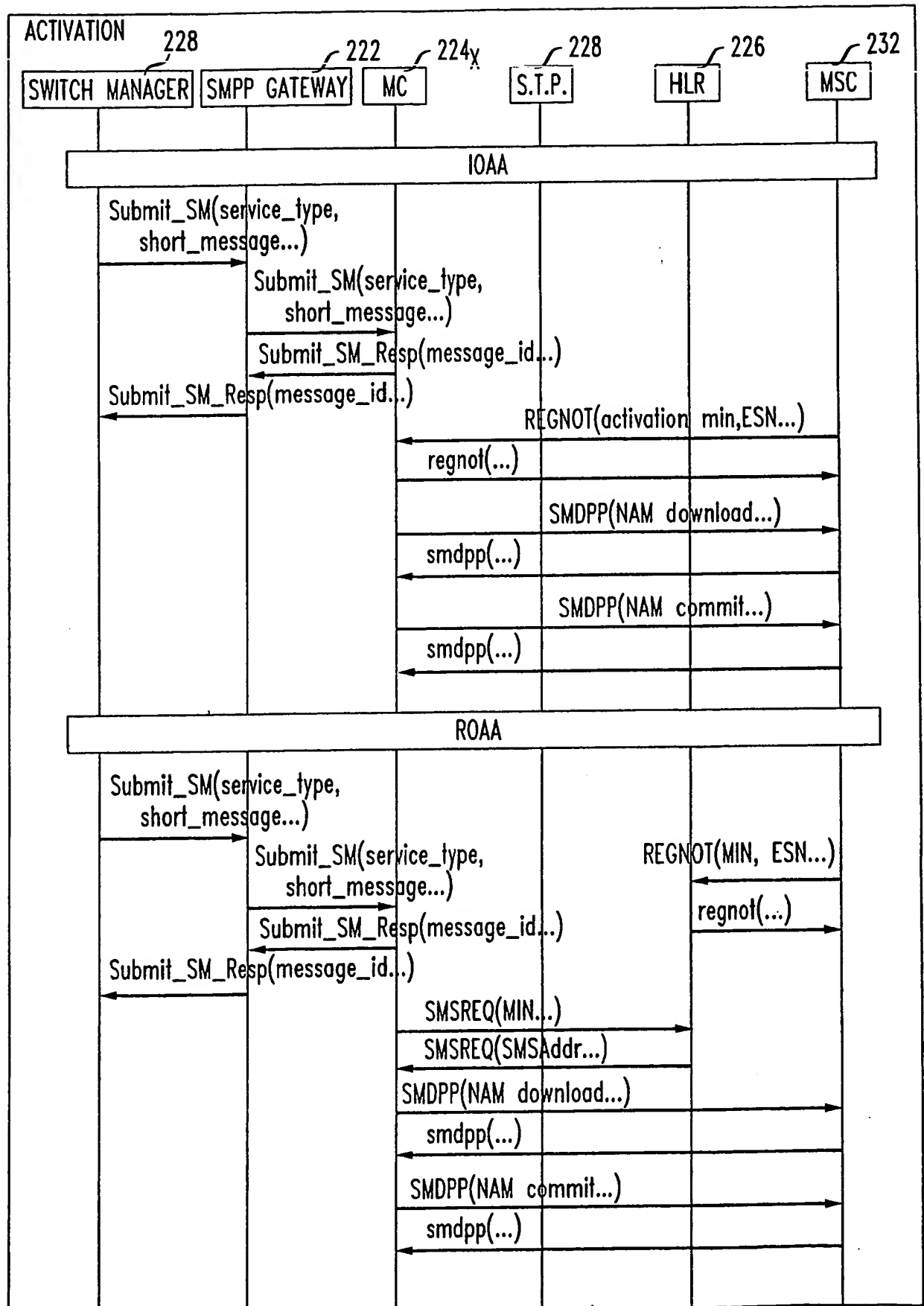


FIG. 19

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FIG. 20

